

WHAT IS CLAIMED IS:

1. A mobile terminal, which is a foldable type mobile communication terminal in which an upper cabinet and a lower cabinet are connected with each other by a hinge, comprising:

5 a magnet that is disposed in said upper cabinet and changes the position in said upper cabinet corresponding to the change of the posture of said mobile terminal;

two magnetic force detecting means that are disposed at designated different positions in said lower cabinet, and detect the magnetic force, which changes corresponding to the change of the position
10 of said magnet, from said magnet; and

a controlling means that judges the posture of said mobile terminal based on the detected magnetic force by said two magnetic force detecting means.

2. A mobile terminal, which is a foldable type mobile communication terminal in which an upper cabinet and a lower cabinet are connected with each other by a hinge, comprising:

5 a magnet that is disposed in a magnet disposing region having a hexahedron structure, whose surfaces are nearly parallel to the surfaces of said upper cabinet, in said upper cabinet, and changes the position corresponding to the change of the posture of said mobile terminal by sliding diagonally in said hexahedron structure;

10 two magnetic force detecting means that are disposed at designated different positions in said lower cabinet, and detect the magnetic force, which changes corresponding to the change of the position of said magnet, from said magnet that slid in the diagonal direction in said hexahedron structure; and

15 a controlling means that judges the posture of said mobile terminal based on the detected magnetic force by said two magnetic force

detecting means.

3. A mobile terminal in accordance with claims 1 or 2, wherein:

said controlling means changes the displaying direction of letters and signs and images to be displayed on a displaying means that is
5 disposed on the outer surface of said upper cabinet, corresponding to the judged result of the posture of said mobile terminal.

4. A mobile terminal in accordance with claims 1 or 2, wherein:

said magnet and said two magnetic force detecting means are also used for detecting the opening or closing state of said upper cabinet.

5. A mobile terminal, comprising:

a magnet that is disposed in a magnet disposing region having a hexahedron structure, whose surfaces are nearly parallel to the surfaces of the cabinet of said mobile terminal, in the upper part of said cabinet,
5 and changes the position corresponding to the change of the posture of said mobile terminal by sliding diagonally in said hexahedron structure;

two magnetic force detecting means that are disposed at designated different positions in the lower part of said cabinet, and detect the magnetic force, which changes corresponding to the change of the
10 position of said magnet, from said magnet that slid in the diagonal direction in said hexahedron structure; and

a controlling means that judges the posture of said mobile terminal based on the detected magnetic force by said two magnetic force detecting means.

6. A mobile terminal in accordance with claim 5, wherein:

said controlling means changes the displaying direction of letters and signs and images to be displayed on a displaying means that is disposed on a surface of said cabinet, corresponding to the judged result of the posture of said mobile terminal.

7. A posture detecting method at a mobile terminal, which is a foldable type mobile communication terminal in which an upper cabinet and a lower cabinet are connected with each other by a hinge, comprising the steps of:

changing the position of a magnet that is disposed in said upper cabinet corresponding to the change of the posture of said mobile terminal;

detecting the magnetic force, which changes corresponding to the change of the position of said magnet, from said magnet by two magnetic force detecting means that are disposed at designated different positions in said lower cabinet; and

judging the posture of said mobile terminal based on the detected magnetic force by a controlling means.

8. A posture detecting method at a mobile terminal, which is a foldable type mobile communication terminal in which an upper cabinet and a lower cabinet are connected with each other by a hinge, comprising the steps of:

changing the position of a magnet that is disposed in a magnet disposing region having a hexahedron structure, whose surfaces are nearly parallel to the surfaces of said upper cabinet, in said upper cabinet, corresponding to the change of the posture of said mobile terminal by making said magnet slide diagonally in said hexahedron structure;

detecting the magnetic force, which changes corresponding to the change of the position of said magnet, from said magnet that slid in

the diagonal direction in said hexahedron structure by two magnetic force detecting means that are disposed at designated different positions in said lower cabinet; and

15 judging the posture of said mobile terminal based on the detected magnetic force at said two magnetic force detecting means by a controlling means.

9. A posture detecting method in accordance with claims 7 or 8, further comprising the step of:

changing the displaying direction of letters and signs and images to be displayed on a displaying means that is disposed on the outer
5 surface of said upper cabinet, corresponding to the judged result of the posture of said mobile terminal by said controlling means.

10. A posture detecting method in accordance with claims 7 or 8, further comprising the step of:

detecting the opening or closing state of said upper cabinet by said magnet and said two magnetic force detecting means.

11. A posture detecting method, comprising the steps of:

changing the position of a magnet that is disposed in a magnet
> disposing region having a hexahedron structure, whose surfaces are nearly parallel to the surfaces of the cabinet of said mobile terminal, in
5 the upper part of said cabinet, corresponding to the change of the posture of said mobile terminal by making said magnet slide diagonally in said hexahedron structure;

detecting the magnetic force, which changes corresponding to the change of the position of said magnet, from said magnet that slid in
10 the diagonal direction in said hexahedron structure by two magnetic force detecting means that are disposed at designated different positions in the

lower part of said cabinet; and

judging the posture of said mobile terminal based on the
detected magnetic force at said two magnetic force detecting means by a
15 controlling means.

12. A posture detecting method in accordance with claim 11,
further comprising the step of:

changing the displaying direction of letters and signs and
images to be displayed on a displaying means that is disposed on a
5 surface of said cabinet, corresponding to the judged result of the posture
of said mobile terminal by said controlling means.